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LIM 1 CDQHILDRFILKALDRHWHSKCLKCSDCHTP	CFSRGESLYCKDDFFKRFGTKCAACQLGIPPTQVVRRAQDFVYHLHCFACVVCKRQLATGDEFYLMEL	SSETGLDMRVVQVWFQ	MAEMGPANGLYGGLG DSS -SSHSI-SN-S -SNHSI-NS-N	SSLVYPEAGLGLV DTN-S DSIM -N-AF-DTII	LDEVDHAQF
DXOZE	NXUZA	NXOME	なれつれて	OXOXO	UXOXU

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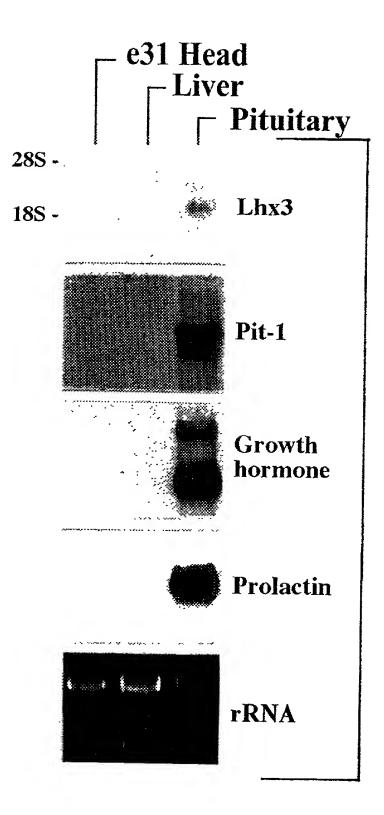


FIG. 2

FIG. 3Ai

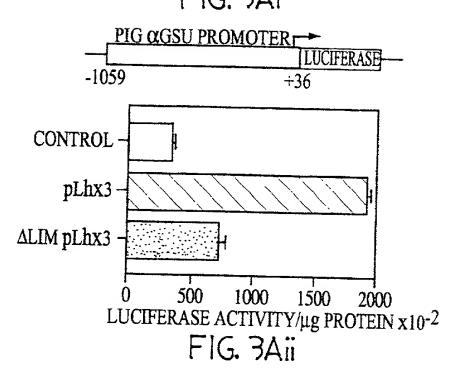


FIG. 3Bi

MOUSE αGSU PROMOTER

LUCIFERASE

-507 +46

CONTROL

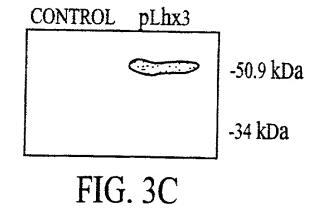
pLhx3

ΔLIM pLhx3

0 1000 2000 3000 4000

LUCIFERASE ACTIVITY/μg PROTEIN

FIG. 3Bii



4/52

+ + 9 + ∞ + 1 + 9 + + S + 4 + 3 N wild-type probe mutant probe wild-type competitor GST-ALIM pLhx3
ALIM pLhx3
GST-pLhx3 mutant competitor - 69 kDa - 46 kDa GST-pLhx3 GST-pLhx3

graft, gent, graft, stung, some, some, gans simet, gans graft, gr

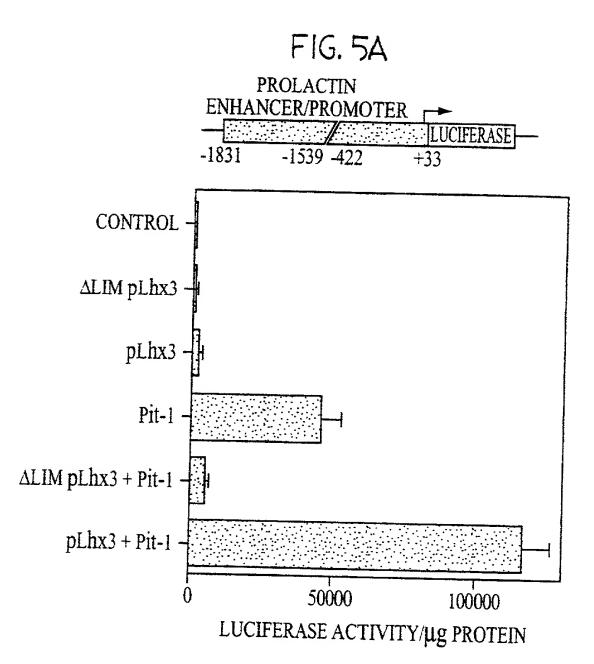
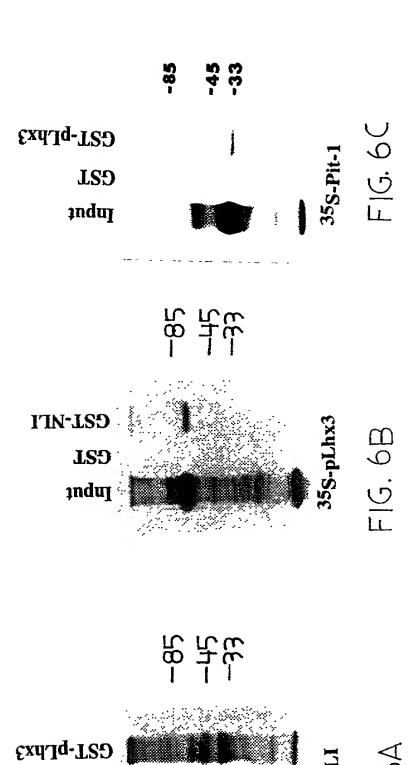


FIG. 5B



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FIG. 7A

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ctggaccgct tcatcctcaa ggctctggac cgccactggc acagcaagtg cttcgggacc aagtgcgccg cgtgccagct gcggagagag acctgcactg cgcctgc gtcgtgtgca agcggcagct ggccacgggc gacgagttct acctcatgga tgaagagcgc aaaagcggct agcgcgcccg ccgagaccgg gtgacgccga gcagcttccc gcctctacgg agcccctcct ccagcagccc cccaggtgg eggacceage teegacetat eeaeggggag aggccgagg aaaagagatc ccactgtgtg ccggctg 61 ccay...
121 cctcaagtgca,
181 cctctactgcaaggacgu.
241 gggcatccg ccacgcagg tggu,
301 cttcgcctgc gtcgtgtgca agcggcagct y.
361 ggacagccgg ctcgtgtgca agcggcagct acgacac.
361 ggacagccgg ctcgtgtgca aggccgacta cgacaaccg.
421 cacggccaag cggccgcga cgaccatcac ggccaagcag ctgy...
481 ctacaacacg tcgcccaagc ccgcgcgaca cgtgcgcgag cagtctcc...
541 cctggacatg cgcgtcgtgc aggtgtggtt ccagaaccgc cggccaaggaaaa
601 caagaaggac gccggccggc aggtgtggtt ccagaaccgc cggccaaggaaaa
601 caagaaggac gccggccag aggtgtggtt ccagaactga agc
661 cggtggctcc aagtcggaca aggacagcgt ccaggaagaag ggcaagacaggr
721 ggtctccttcacagacgagc catccatggc cgaaatgggc cctgccaacggr
781 cggcctgggggagcctggc cgccttggg ccggccccggc
641 gctggagcac gaggctggc ccgccctggagagaacccc
901 ctacggtgtc ccctcgtcgc ccgccgccct gcagacctc cctggcccc
10 ctacggtgtc ccctcgtcgc ccgccgccct gagacccagc tccgacc.
10 catgagggtgc tggcagggaa cggacccagc tccgacc.
10 catgagggtgc tggcagggaa cggacccagc tccgacc.
11 ccatgagggtgc tggcagggaa cggacccagc tccgacc.
12 catgagggtgc tggcagggaa cggacccagc tccgacc.
13 ccatgagggtgc tggcagggaa cggacccagc tccgacc.

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1081 cagtgggggc taccccgact tecetgecag tecegectee tggetggaeg aggtggatea 1141 cgetcagtte tgactgagge eccageteeg tggageacea gacacgage etgeeetgg 1201 ctgggtggte gggagecgeg eteteettte ecgaageect gggeetetaa aggaeacagg 1201 ctgggtggte gggeacagge tgaggaetgt ecagecegge ggeeetggee ecgggeagag 1261 gteaceggeg gggeacagge tgaggaetgt ecagecegge ggeeettggee ecgggeagag 1321 ggaetttete ecggtetega ggeteettet gggaeaaaggg gagecaeetg gtggetet 1381 ageaageett gttttgtaag cagatteete ecttateaa ectaaaattaa etgagtett ctgagtgctt gtggtcagcc cccgaagccg gggaggggggg ctctccccag ttttaaaatt aaaaaataa laactgtg cttccatttc ccagcttcct ctgtctagtt ctgcc saagcett gttttgtaag cagatteete eetttateaa agactggaag atgctttaat 1441 gctgctcttt ctagaccgga 1501 cccagagcag cacagccctc 1561 acg

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WEGRPQELGGKEIPLCAGCDQHILDRFILKALDRHWHSKCLKCSDCHTPLAERCFS RGESLYCKDDFFKRFGTKCAACQLGIPPTQVVRRAQDFVYHLHCFACVVCKRQLAT **QLSSETGLDMRVVQVWFQNRRAKEKRLKKDAGRQRWGQYFRNMKRARGGSK** LMEDSRLVCKADYETAKQREAEATAKRPRTTITAKQLETLKSAYNTSPKPA VQEEGQDSDAEVSFTDEPSMAEMGPANGLYGGLGEPAPALGRPSGAPGSFP LAGPEQYGELRPSSPYGVPSSPAALQSLPGPQPLLSSLVYPEAGLGLVPAG PPMRVLAGNGPSSDLSTGSSGGYPDFPASPASWLDEVDHAQF RHVRE LEHGG GDEFY SDKDS PPGGP

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hLhx3a	L	L		HD		LSD	397aa
hLhx3b	L	L	-	HD		LSD	402aa
<u> </u>		 					

Fig. 9A

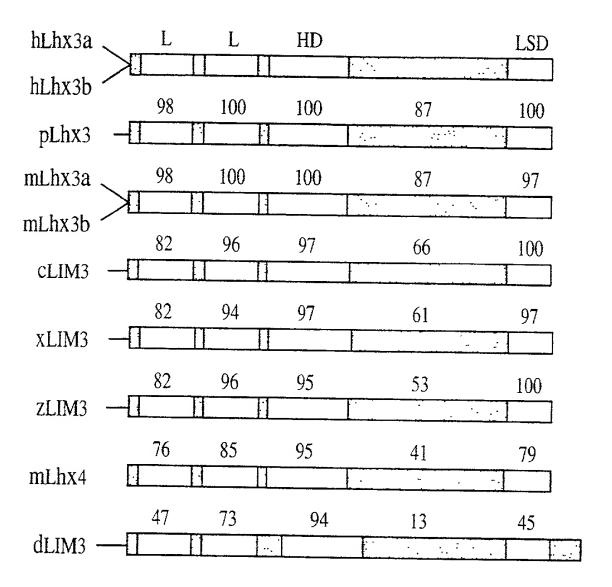


Fig. 9C

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FIG. 10E

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1679 ggctgcagag gcggggacac acctgtgtcc tectcaccec accecaggec 1729 cttggtgtcc aggctgcacc cacagatgtc tgttgccaaa cagcctgccc 1779 tccctgccgg agccggctct gccagcccca gattgggaag tctccccgct 1829 ggagaagggt ggggctcctc tgagcctgcc ctgcctcctc catcagatcc 1879 tttgggaaga agtttctggg agatgcccgc agctgtgcgt gccccagaca 1929 caaaggctgg cctgtgtgta agtcaaagtc actcccgcaa acctgaatct 1979 cgagctacct attggttctg tgaatgttct gtgtctttta tttattctcg 2029 ggtgatcagc tctttccaag ctcgtgcc

- -119 cgcagcgccc agcagcaccc ggagtcgctt ggacgccggt tcggggctat -69 tgcggggtgg cgtcgctggg cccgggaaag ttcgggactg gagagtggcg -19 acgccgggcg gcgggacccA TGGAGGCGCG CGGGGAGCTG GGCCCGGCCC 32 GGGAGTCGGC GGGAGGCGAC CTGCTGCTAG CACTGCTGGC GCGGAGGCCA 82 GACCTGCGC GA 94 GAGATCCCGC TGTGCGCTGG CTGTGACCAG CACATCTC AAGTGCAGCG 144 CCTCAAGGCT CTGGACCGC ACTGGCACAG CAAGTGTCTC AAGTGCAGCG 194 ACTGCCACAC GCCACTGGC GAGCGCTGT TCAGCCGAGG GGAGAGCGTT

FIG. 11E

AND REAL PROPERTY.

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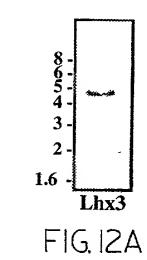
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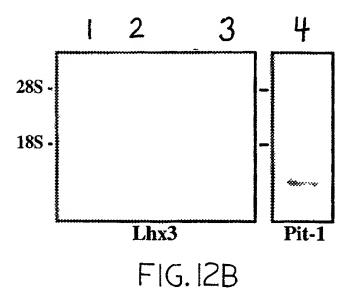
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FIG. 110

M

gcccagaca GTTACCCCG ACTTCCCTGC CAGCCCCGCC TCCTGGCTGG ATGAGGTAGA ctcacacgag tccgaggaag ctcccactgc tggcccctcc gcacttgctg ccagcccagc ccagcctttt gagaaatcat agccgtcacc ccttgcctgt cgaggcaaga tcctcaccc accccaggcc ccaggcc cagcctgccc ctcg tctccccgct catcagatcc acctga tttai tcccagcaag c aattaactga g agattgggaag t ctgcctcctc agctgtgcgt o caccctgcac tgctggggtt ccttcggagc gggacccacc gaggcccagc ctctaaaact tgtgtcttgg tgttgccaaa gtgtctttta tttattgacc*e* tcaccttgct <u>c</u> tgggggctga c gcaggtggcct sacctgtgtcct scacagatgtct tgagcctgcc Jagatgcccgc ggcccggctc ggctcggggc agggctggtg acgctttcat ctctttaggt cggagattgg ctttcacttcccaggctcca gttct gccagcccca agtcaaagtc ctcgtgc tgaate agtttctggg a attggttctgt:tctttcaag CACGCTCAG TTCTGACCCA ctgggtgggc gctccctctc gcgtcaaggg ggctggcccg atttctcccc acatgaaatg ggctggaaaa gcggggacac aggctgcacc ggggctcctc agccggctct 1144 1194 1294 1294 1394 1444 1544 1594 1594 1794 1794 1894 1894 1994





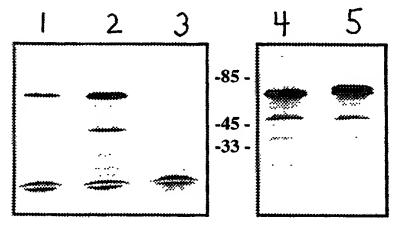
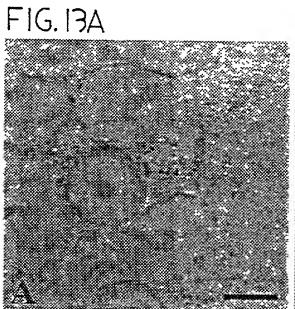
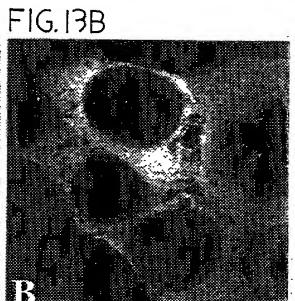
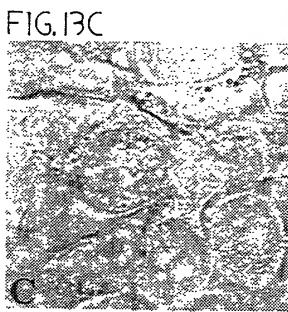


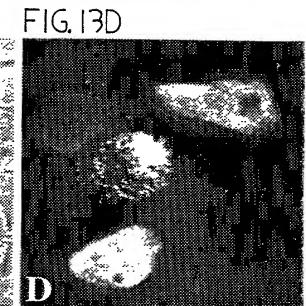
FIG. 12C

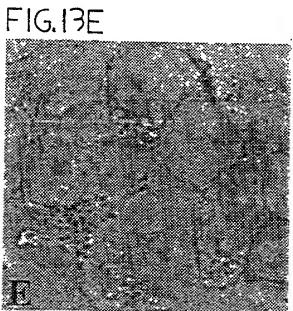
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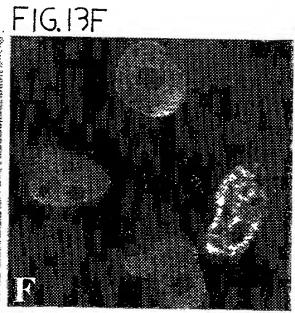


FIG. 14Ai

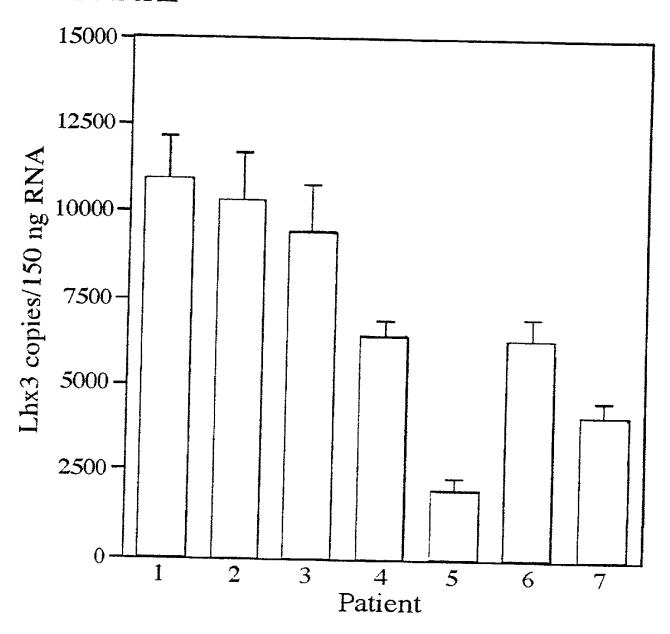
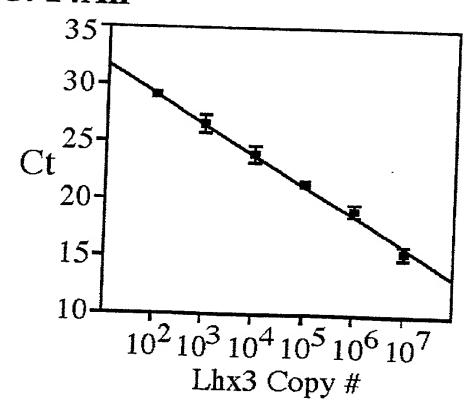
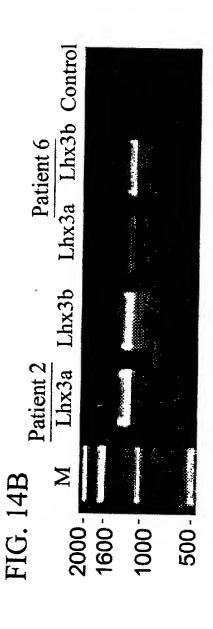
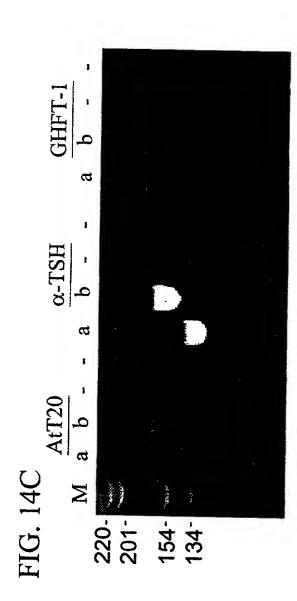
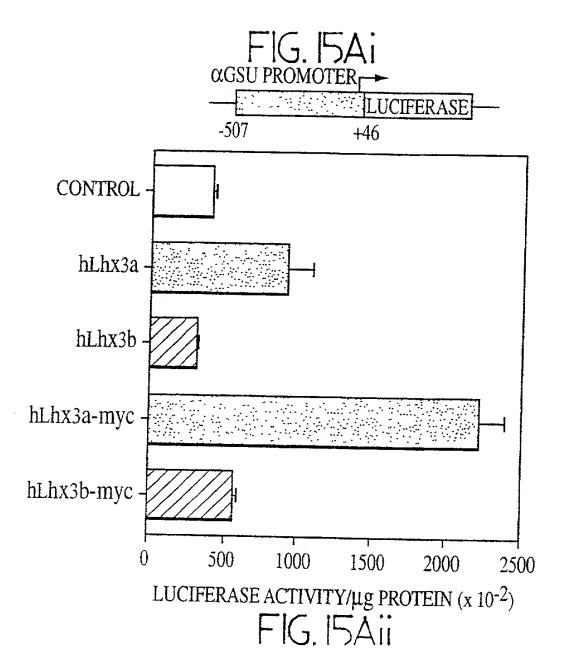


FIG. 14Aii









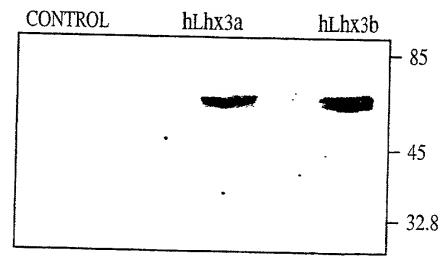
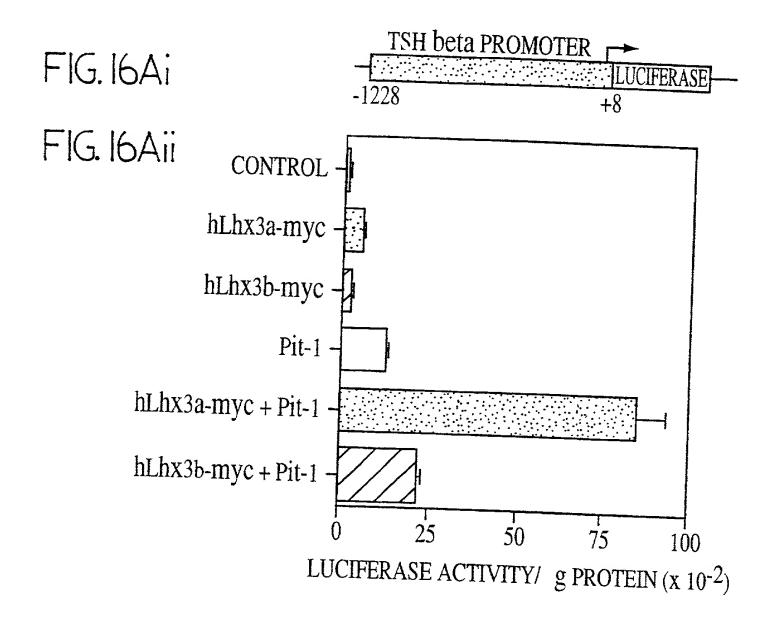
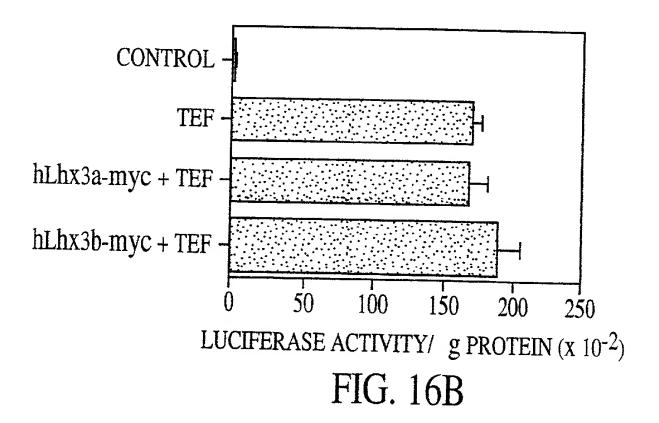
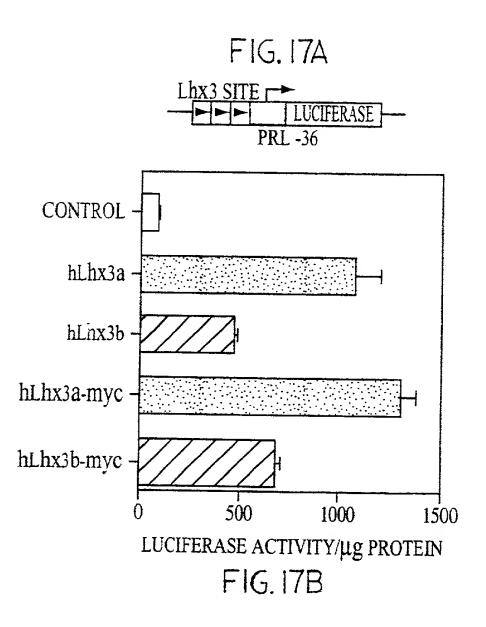


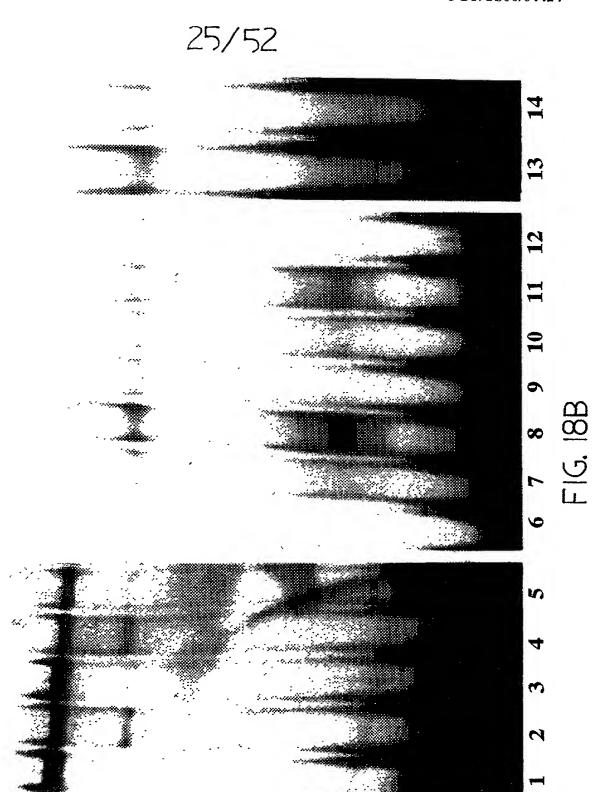
Fig. 15B







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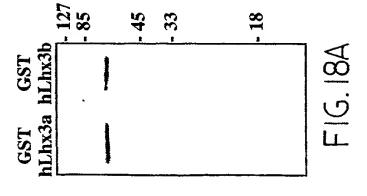


FIG. 19A

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And But

acga ggtgacccag aacttcctcg tgcccaca GAGATCCC GCTGTGCGCT tgcga ggagtcccta taaagagtgg ccatgacgct taacatgaag ccgat ggggtgcccc agctccaggt gatggtgaag acccgtttcc tgagtattca gcctcgtgaa atggcctggg ctgctttctt gctcacacac ctatgtttcc tgccgggctt cagagagcag atcccctgg ggtggggttt tgagc tccacatgca cccttcttgg cactggcaac attttgtaat cgatgtcagt ttccccttag ctcctgacat aggatgcggt vacac teceggaaet tgeggggeea ettaagetgg etggggaaga gggtgtgtag ggaaaggagg accctcggc ggccctgagt cctgtggggcc Jgagg ctggctcgcg ttggggtggg aaggtggctt cactgcctcc CCACTGGCAC AGCAAGTGTC TCAAGTGCAG CGACTGCCAC ACGCCACTGG 'GACC AGCACATCCT GGACCGCTTC ATCCTCAAGG CTCTGGACCG GCTG CTTCAGCCGA GGGGAGGCG TTTACTGCAA GGACGACTTT GAGG ACAGCCGGCT CGTGTGCAAG GCGGACTACG AAACCGCCAA GGTG GTGCGCCGCG CCCAGGACTT CGTGTACCAC CTGCACTGCT 'GCGT CGTGTGCAAG CGGCAGCTGG CCACGGGCGA CGAGTTCTAC attta ccccggaggc ctgcagacag ggccaccagg agggcagcc CGCT TCGGGACCAA GTGCGCCGCG TGCCAGCTGG GCATCCCGC atttttagac ggaggg tggtct GGCTGT gcctgc CCGAGC tcattt gagaco LTCAAG CACGCA ttgat acatt TGCCI

FIG. 19B

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GCGCGCCACG TGCGCGAGCA GCTCTCGTCC GAGACGGGCC TGGACATGCG
CGTGGTGCAG GTTTGGTTCC AGAACCGCCG GGCCAAGGAG AAGAGGCTGA
AGAAGGACGC CGGCCGGCAG CGCTGGGGGC AGTATTTCCG CAACATGAAG
CGTCCCGCG GCGCCGGCAG CGCTGGGGGC AGTATTTCCG CAACATGAAG
GGACAGCGAC GCGCCGGCAG CGCTGGGGGC AGTATTTCCG CAACATGAAG
GGACAGCGAC CGTGAGGTCT CCTTCCCCGA TGAGCCTTCC TTGGCGGAAA
TGGGCCGCG CCTGAGGTCT CCTTCCCCGA TGAGCCTTCC TTGGCGGAAA
TGGGCCGGC CAATGGCCTC TACGGACCT TGGGGGAAC
CCTGGCCGGC CCTCGGGAGC CCTGGGCAAC TTCTCCCTGG AGCCTTCCG
GTGTCCCCCC CACGGCAGC CCTGGGCACC GCGTCCCGCC
CTCGGCAGGC CCTGGTGTA CCCAGACAC GCGTCCCTGG CCCCCAGCC
CTCGCCAGGC CCTGGTGTA CCCAGACAC GCGTCCTGG CCCCCAGCC
CTCGCCCCC GCCGGGGCCC CACCCAGACAC GGGAACGGAC
CCTCTCTCCCC GCCGGGGCCC CACCCATGAG GGGAACGGAC
CCAGTTCTGA CCTATCCACG GGGAGCAGC GGGGTTACCC CGACTTCCCT
GCCAGCCCCC GCCGGGACC GGGAGCAGCG GGGGTTACCC CGACTTCTGACC
CCAGTTCTGA CCTTCTGACCT GGATGAGGTA GACCACCTC AGTTCTGACC GAGAG GCCGAGGCCA CGGCCAAGCG GCCGCGCACG ACCATCACCG cggg gctgctgggg tttccgagga agtggggcca gggcgtcaag cggc tccaccctgc acctcacacg agggagctgc ccctgggtgg ctgg tgccttcgga gcctcccact gccgaccgca cagctccctc gcggctc GCAGCC caggcc ggaggg

FIG. 19C

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cgccaggtgg cctcccagca agccagcctt ttttgtaagc aaatttctcc tctgggggct gagggaccca cctggcccct cctctgacac agggctggcc cctttattga ccaattaact gagcacttgc tgctatttct agacatgaaa tgtcaccttg ctgaggccca gcccagccca gcatagcccg agggctggaa aaacgctttc atctctaaaa ctgagaaatc atcataattg tgctttcact tcccaggctc catgtgtctt ggagccgtca ccccgaggct ccctctttag gtcggagatt ggccttgcct gtcgaggcaa gaggctgcag aggcggggac acacctgtgt cctcctcacc ccaccccagg cccttggtgt ccaggctgca igatg tetgttgeea aacageetge eeteeetgee ggageegget igaca cagattggga agtatacaa atggagaagg gtggggataa gaagtttctg gccc gcagctgtgc gtgccccaga cacaaaggct ggcctgtgtg aaag tcactcccgc aaacctgaat ctcgagctac ctattggttc tgtt ctgtgtcttt tatttattct cgggtgatca gctctttcca scctgcctcc tccatcagat cctttgggaa ftgcc tctgag cccace ctgcca ggagat taagto tgtgaa agctcg

FIG. 20A

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gategetteg geageagetg acaeteagee acetgeaeee ageaeageee gcacacatt ggctttgcac ccgcgtgtcc ttgccctggc ccttcttggg ttctt gtgcccatcc ttctgggcct gggcccttaa agctcacagt cggacacatc ggacctgctg ggagctagga gggagggact aaagctggct gcatgggcca gacct gcaggatggc atcagcccct ggtcccccaa cccttcctgt gccgagggcc acccactgct gtgttcttcc ccgggtggct gcccagggct ttgctgtgag acccacaggg tctgc gcactgccag ggcaccctg cctttgccaa gtcctgtgct tggcc cagggccctc tgggcagggg tgggtgcgtc cctctgcctg tgtgtggact ggggcaagag tgtgcaaagt gaagggcag taggcagagt ggacagagta caaggacagg tgggttctgg agagctcacc gctgaaatat caGAGATCCC GCTGTGCGCT GGCTGTGACC AGCACATCCT GGACCGCTTC taacaagtgc ccagaagcca ctgctcaaaa gtggtt ggtgct gtgtti agagge

IGACC AGCACATCCT GGACCGCTTC ATCCTCAAGG CTCTGGACCG SGCAC AGCAAGTGTC TCAAGTGCAG CGACTGCCAC ACGCCACTGG SGCTG CTTCAGCCGA GGGGAGAGCG TTTACTGCAA GGACGACTTT ITCAAGCGCT TCGGGACCAA GTGCGCCGCG TGCCAGCTGG GCATCCCGCC CTGCACTGCT 'GCGT CGTGTGCAAG CGGCAGCTGG CCACGGGCGA CGAGTTCTAC GGTG GTGCGCCGCG CCCAGGACTT CGTGTACCAC CCACTG CCGAGC

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FIG. 20C

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ggaggctgg tgccttcgga gcctcccact gccgaccgca cagctccctc egecaggtgg ceteceagea agecageett ttttgtaage aaatttetee agggctggcc cctttattga ccaattaact gagcacttgc tgctatttct agacatgaaa tgtcaccttg ctgaggccca gcccagccca gcatagcccg agggctggaa aaacgctttc atctctaaaa ctgagaaatc atcataattg tgctttcact tcccaggctc catgtgtctt ggagccgtca ccccgaggct ccctctttag gtcggagatt ggccttgcct gtcgaggcaa gaggctgcag aggcggggac bytyt cetecteace ceaeeceagy ceettygtyt eeaggetyea cccacagatg tctgttgcca aacagcctgc cctccctgcc ggagccggct ctgccagccc cagattggga agtctccccg ctggagaagg gtggggctcc scctg ccctgcctcc tccatcagat cctttgggaa gaagtttctg aaag tcactcccgc aaacctgaat ctcgagctac ctattggttc ggagatgccc gcagctgtgc gtgccccaga cacaaaggct ggcctgtgtg itgtt ctgtgtcttt tatttattct cgggtgatca gctctttcca tctgggggct gagggaccca cctggcccct cctctgacac ttgcc tgtgaa tctgaç taagtc agctcg acacct

FIG. 21A

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gccccagtga gccctgggct ggaggtgatc acgcatgggg ctgccccggg CGGC CCTCGGGAGC CCTGGGCAAC TTCTCCCTGG AGCATGGAGG CGGC CAATGGCCTC TACGGGAGCT TGGGGGAACC CACCCAGGCC JCCCC TGGGC

FIG. 21B

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CTGGCAGGC CCAGAGCAGT ACCGAGAGCT GCGTCCCGGC AGCCCCTACG GTGTCCCCCC ATCCCCCGCC GCCCCGCAGA GCCTCCCTGG CCCCCAGCCC CTCCTCTCCA GCCTGGTGTA CCCAGACACC AGCTTGGGCC TTGTGCCCTC GGGAGCCCCC GGCGGCCCC CACCCATGAG GGTGCTGGCA GGGAACGGAC GCCAGCCCCG CCTCCTGGCT GGATGAGGTA GACCACGCTC AGTTCTGACC TCTGA CCTATCCACG GGGAGCAGCG GGGGTTACCC CGACTTCCCT caggecegge tecaeettge aceteaeaeg agggagetge eeetgggtgg toggg getgetgggg tttecgagga agtggggeea gggegteaag tctgggggct gagggaccca cctggcccct cctctgacac agggctggcc ggagggctgg tgccttcgga gcctcccact gccgaccgca cagctccctc cgccaggtgg cctcccagca agccagcctt ttttgtaagc aaatttctcc cctttattga ccaattaact gagcacttgc tgctatttct agacatgaaa tgtcaccttg ctgaggccca gcccagccca gcatagcccg agggctggaa aaacgctttc atctctaaaa ctgagaaatc atcataattg tgctttcact gotc catgtgtctt ggagccgtca ccccgaggct ccctctttag gatt ggccttgcct gtcgaggcaa gaggctgcag aggcggggac gtgt cctcctcacc ccacccagg cccttggtgt ccaggctgca gatg tetgttgeea aacageetge eeteeetgee ggageegget gcggct tcccag CCAGT gtcgga acacct CCCACA

the gray print thing phire is

FIG. 21C

ctgccagccc cagattggga agtctccccg ctggagaagg gtggggctcc

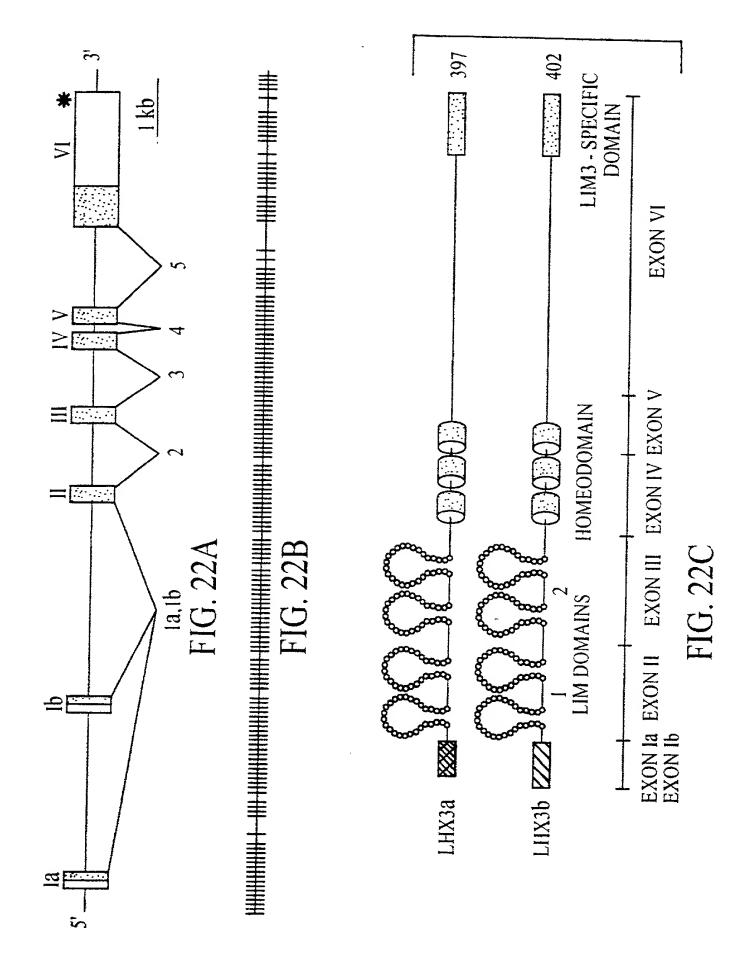
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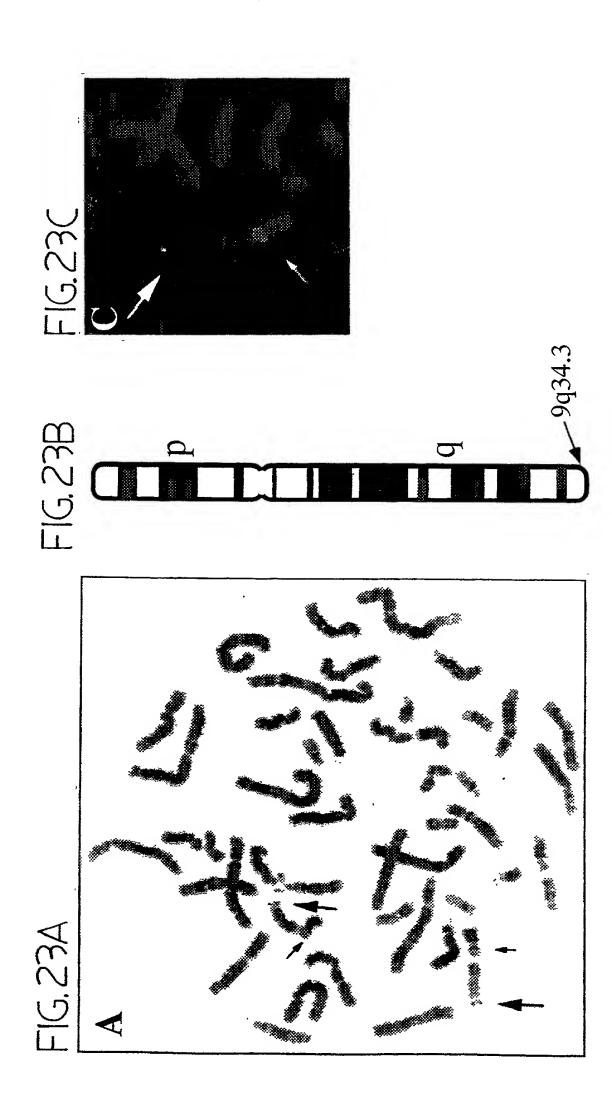
ggagatgccc gcagctgtgc gtgccccaga cacaaaggct ggcctgtgtg

taagtcaaag tcactcccgc aaacctgaat ctcgagctac ctattggttc

tgtgaatgtt ctgtgtcttt tatttattct cgggtgatca gctctttcca

agctcgtgcc





- LETGLERD RARPGAAAVC TLGGTR
- PLCAGCDQ HILDRFILKA LDRHWHSKCL KCSDCHTPLA ERCFSRGESV

Santy direct strong affauer Santy Line

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- KDDFFKRF GTKCAACQLG IPPTQVVRRA QDFVYHLHCF ACVVCKRQLA
 - DEFYLMED SRLVCKADYE TAKQREAEAT AKRPRTTITA KQLETLKSAY
- SPKPARHV REQLSSETGL DMRVVQVWFQ NRRAKEKRLK KDAGRQRWGQ
 - RNMKRSRG GSKSDKDSVQ EGQDSDAEVS FPDEPSLAEMGPANGLYGSL
- PTQALGRP SGALGNFSLE HGGLAGPEQY RELRPGSPYG VPPSPAAPQS FIG. 24

 1 MILETGLERD RARPGAAAVC TLG
 27 EI PLCAGCDQ HILDRFILKA LDRI
 77 YCKDDFFKRF GTKCAACQLG IPPI
 127 TGDEFYLMED SRLVCKADYE TAK
 177 NTSPKPARHV REQLSSETGL DMRI
 227 YFRNMKRSRG GSKSDKDSVQ EGQI
 277 GEPTQALGRP SGALGNFSLE HGGI
 327 LPGPQPLLSS LVYPDTSLGL VPSC
 377 GYPDFPASPA SWLDEVDHAQ F*

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Thirty of the

1 ggcacgagcc ccgcacgacg cggcgggact tgggagcccc gaaccctcca
51 ggggacgctg acctcggagg agcgcgtctc gcgccactcg gcctggtggc
101 cgcgATGCTGCTGGAAACGG GGCTCGAGCG CGACCGAGCG AGGCCCGGGG
151 CCGCCGCCGT CTGCAACCTTG GGCGGCACTC GGGGtaagcc ccagcaggac
201 actgaggaca gaaacggcaa gggcggcaga ggcggagaga agggggtgcg
251 tgcagggaca gcagccaggc aaagaaagtc ccgccgctct gcaggcggga
301 cacagagatg gaaactgcag agagtgagtt tccagatccc agggtgggag
351 ggagggcctg acgctggcct gcaagagtgc gggacagcggttgga
351 ggagggcctg acgctggcct gcaagagtgc gggacagcggttggag
451 gccagaccaag gggtgctagg ttcccccggt gaccagttgc cgtcagctct
501 tgcacaccag gggtgctagg ttcccccggt gaccagtgccagccctcc
501 tgcacaccag gggtgctagg ttcccccggt gaccagtgccagc
551 cttgtgtctc ccgcctgaac cacctcccc aagggccatt ccatcaccac
601 ggacgctggg aaataatgga ggcattgttg gagggcttgc cagatgccag
651 ctgtgtctc ccgcctgaac caccttccc cagtagccag
651 cagggtgggc cgcctcctta acctggcgcc gcccttccc cagtcctgcc
701 acacacgacc cctgatcgct tcggcagcag ctgacactca gccacctgcc
701 acacacgacc cctgatcgct tcggcagcag ctgacactca gccacctgcc
701 acacacgacc cctgatcgct tcggcagcag ctgacactca gccacctgcc
701 ggacgcttctt gggtaacaag tgctgtggcaa agtgaagggg cagaaagctg
861 gcccttctt gggtaacaag tcttgtgccca tccttctggg cctggacct
801 ggagggaggg cccttctt gggtaacaag actggaccca tccttctggg cctggaccct
801 ggagggaggg ccttctt gggtaacaag tcttgtgccca tccttctggg cctggaccct
801 ggagggaggg ccttctt gggtaacaag actgggccca tccttctggg cctggaccct
801 ggagggaggg ccttcttgggccca tcttgtgccca tccttctggg cctggccct
801 ggagggagggccca tcttgtgccca tctttgggccca tctttgggccct tcttgggccct tcttgggccca tctttgggccca tctttgggccca tctttgggccca tctttgggccca tctttgggccca tctttgggccca tcttttgggccca tctttgggccca tctttggccca tctttggccca tctttgggccca tctttggccca tctttggccca tctttgg 51 101 101 151 201 201 301 301 401 451 501 601 601 701 701 701 701 801

FIG. 26B

The True

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Bun Mr

101 aagtectgtg ctgccgaggg ccacccactg ctgtgttett eeeegggtgg 151 etgeecaggg etggtgetgg eeagggeee tetgggeagg ggtgggtgeg 201 teeetetgee tgcaaggaca ggtgggttet ggagagetea eetgtgtgga 251 teggggeaag aggetgaaat ateaggtaag ggaeegtgtt eeaatggage 301 eggagtgetg ggggetggaa atggaaggtg tgeeetgggg etteeeeage 351 teggeeeete aegaeeegag gtettggetg egtgteeagg aeaeagagee 401 tgttetetet eaaggattge eetteeteee tgageegtee ggggeegea 451 tteeaggggt ggageeeaga ageetgttag eatetgggat eggteeggea taaagctcac agtccagaag ccataggcag agtggacaga gtattgctgt ggcatcagcc cctggtcccc ctgctttgcc ccttgcggtt ccggtacgca gccctcggcg ccacactcac cccttctgcg tttcgggttg agctcccgcc gaccatctgc tgctcccgag gccaaacctc ddccccdccc cagggcaccc Iggctggtc teegegacee eeggeeeege eeegeeege gagacccaca gggagaggga cctgcaggat caacccttcc tgtgtgtttc tgcgcactgc 951 1001 1151 1401 1451 1051 1351 1201 1251 .551 1651 1301 .601

FIG. 26C

State of the state

The Man

Marie article

201 gggagaccag gagatcctca gáccítícag gácctgácag cigaaggetgg 251 caggagetag aggatctggg cgggagtggg cgcgaggacc ceggaacgtc 301 cgcgcctggg cgcctcagcc tgtatttgtt gcagggccc tggcctgggt 351 tgtcagggag tgagtgaggt tgtggcactg cgctgctccg gccagggagc 401 tctcgggggt ccagggtggg cttaggagac ctctgcagcc cggagccagc 451 tccctgggct ggaggaggg cagggagcag tggcggagca gtgaccacgg 501 gacaggaggg tccccaagaa ggccgccca gccggactct ttccacgttc 551 cagcggaaca gagtcagatg caggggccaa ggtcgagctg aactccgacc ggggctattg cggggtggcg tcgctgggcc cgggaaagtt cgggactgga gagtggcgac gccgggcggc gggacccATG GAGGCGCGG GGGAGCTGGG CCCGGCCCGG GAGTCGGCGG GAGGCGACCT GCTGCTAGCA CTGCTGGCGC GGAGGGCAGA CCTGCGCCGA Ggtgggtgcc cgggccgagc ggctgcaccg ceggeeget eegeeeteeg eteggeeaga ggeteeggge eeeagggeeg acgccggttc gteggtetee eegaageeag grilleayly lighaaaaage etetete teggtitate eegeteagg geeegtetgt aggaaaaage etetete ggtggagccg iggatgggg aaggaggccc cggagccagt ggggagtgag agggaccggc agtcgcttgg tettagggaa cetgggcagt tetectegae tecegggeea ccgcgggCg cagcgcccag cagcaccgg 1951 2101 2151 2201 2001 2051 2301 2351 2401 2451 2501 2251 2601 2551 2651 801

EIG. 26

there must from

101 ggctggggtc gcggggcggg cgcggggtgg gctggggcgg cttttgcccg 151 acgcgggcgc cggcggcgag ctgcggccga ggcgctgtcc ggtccgcggt 201 gctgaatccg cgctgtgtcg gcctgtcggg ccgcccgct ccgaccggt 251 cctcgcctgc gatcgctgcc cacgatgggg accccgggcg cgcagcggt 301 cctcgacgct ccgcacccgg agctgcggtt ttgccggatg cggggcgcat 351 tcatcgccgg tttcccgcca ctgcgtgggg aggcgcagc cagtttttc 401 cgccggaggt cgagggagcc ccttcttggt gtctctcacc cactgggaga 451 tgggctggag ccggcggggt ccacagccag ggaggcgggt gcaatatgtc 501 agtaaatccc ggtcccttca gcgggcactc ctctttcca gagacttttt tatttattta ttttcgacg gttcctggga ggggttggcc gcgggggctg gggggcggag agaaggg aggaaggagg actgcgcgcc cgcgctcggg agagctggcc ggagcgggcg ggctggcgtc caggctccgc cgaccccgcc ggcgggaag ggggttacat ccaggctgtg ggggctcgcg gttccctact caggagcccc cgccagggct ggagtcgcca tgcagcgtaa acccgctcac Jactegagg eteceacagg geaceettgg acetececag tgtggtteet aagcagcggg tttgagtaac tctgncggtg ttgggggcac ccacgcttga taattttgcg ctaagtgaag agggagtcct cagcccttga cacctggaaa sagggggcc tgcagtattg aagtgggggtg tgggggggag gtggatgggt ttgtccagtccactcataag atccctgaca cacaaagcca agccagacg 3201 3251 3301 3351 3151 3401 3451 2951 3051 3101 2901 3501 3551 3601 3651

FIG. 26F

Manual and

Fig.

cagateceet tggggtgggg tttteatttg agetecaeat geaeeettet tggeaetgge aacattttgt aattgagtat teageetegt gaaatggeet ggcagccctg agtcctgtgg gccggagggg aggctggctc gcgttggggt gggaaggtgg cttcactgcc tcctggtcta cgaggtgacc cagaacttcc tcgtgcccac agAGATCCCG CTGTGCGCTG GCTGTGACCA GCACATCCTG GACCGCTTCA TCCTCAAGGC TCTGGACCGC CACTGGCACA GCAAGTGTCT ctgcccaat gatggggaag gcattgatat ttaccccgga ggcctgcaga ctagaaagag ggtgatggtg aagacccgtt tccctatgtt tcctgccggg cttcagagag gggctgcttt cttgctcaca cacatttttta gaccgatgtc agtttcccct tagctcctga cataggatgc ggtgcctgca cactcccgga acttgcgggg aaggagaccc gatggggtgc cccagctcca ccacttaagc tggctgggga agagggtgtg tagggaaagg aggaccctc CAAGTGCAGC GACTGCCACA CGCCACTGGC CGAGCGCTGC TTCAGCCGAG GGGAGAGCGT TTACTGCAAG GACGACTTTT TCAAgtgagc cccgaaacct cacctcagtg tgggagcgga gggcacgcct gccccaggga ctcctccct tgcgtctctcgcaatcccag gcggcctggc caaattaagg ggctgggcct ggctgggaca gccacatttg cgaggagtcc cacaatcacc aaggccaggc cctcgaagcc cccactcctg tcacccaggc agggcacct ggggcctc tccatgggtg ctccctgggt gctgcccaat gatggggaag cagggccacc aggcagggca tggccatgacgcttaacatg 4401 3901 4251 3951 4051 4101 4151 4201 4301 4351 501 4001 451 651 4701

FIG. 26F

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Thank street.

Tank Tank

aaaaaagcaa tttattacct aaatcacaga gottttcg ccctggtcg gaattatcgc cctaaattct tggccgcgaa cagcaagta ttatttcgaa 4851 5001 5151 5201 5251 5301 5351 4951 5051 5101 5401 5451

The time

801 grages and considered and consid ggctgggcca tacccacacc cttagaataa aggggagccc gcggggaaat cagggtgctt ggagaaggga gccaaggctg aaggcggggg cgccgtggag aagcatttca ccgccctggg tggccactcc ctactttcaa ttcccatgga gttagtggac tccttaagtt agcaccctcc tacagaacctgctcccc 6101 6151 6201 6251 6301 6351 5901 5951 6001 6051 6401 6501

FIG. 26H

Hart Want that and man and

After gerring gebrige in hand, it is

851 gggaggggc tacttggggt cagggagaga aggttccata cccttctgtg
901 gggggctggat tatttatttc attctccggg caccggggat gctgcgtccc
951 catctgttga tgcccatcct cagaatgtgg acaagacact ctcttttggg
001 ctgcctcgtg acccgggcta ctcactcagc cactctggaa ctaaatacc
051 ttgtctgcaa aatgtgggtg gtggtatctg tgcccccttc ctaggctgct
101 gtggggctgg tcctgaaagc ctgggccctg gctgggctgt tcctgactct
1151 gatcccacca ggcctgagac acctgggctg actcaggggt gagggcagtg
201 gaggggcagg gacagccatg ctccaacagt agaaaggggc tgtgctgacc
251 tgtcatgtgg tgtggggcag ccactcttc tctgacccag gggtgcctcc
301 gcctgcagga tggggactctg agagggccgc agtggcgcc
301 gcctgcagga tgggactctg agagggccgc agtggaggc
351 tgtcatgttgc agaTGGGGCT TCCTTGGCGG AAATGGGCC
301 GGCCAATGGC CTCTACGGGA GCTTGGGGCA ggaccactgc ttttcccctg gtggggacac aatccctgtg gcccgacctg tccccaagct gggcgcctac gggctttctc atgggggggt gggcgtgtcc aggccgtctc tctggctcct agcccttgca gtgattttta ggagaatggg cagtgcattt cgggaaagac tgagtcgaag tcccagctgc ttggagttgg SCCCTCGGG AGCCCTGGGC AACTTCTCCC TGGAGCATGG AGGCCTGGCA SCCCAGAGC AGTACCGAGA GCTGCGTCCC GGCAGCCCCT ACGGTGTCCC 6801 7051 7101 6851 6901 6951 7001 7151 7201 7251 7301

Breet unif Hine

He dies at the second second

tgcctccagc cccaccilcologysusums - - fragatcaga aaaatgcctg scatgtgt cttggagccg tcacccgag gctccctctt taggtcggag ytetteegg gagaggeee eteetetee cagaecacag ggggeetete gacacacctg tggccttg cctgtcgagg caagaggctg cagaggcggg ġ 7601 7651 7751 7901 7951 8101 7801 7851 8051 8001 401

The state start, tritty many and start, and

Three Streets treets

FIG. 27A

gctgctgg aaacggagct ggcgggcgac cgagatcggc ccgggggcccc egcagcegce getgtetgea ecttacegg gaetegggag ateceaetgt gtgeeggetg egaceageae atectggaee getteateet caaggetetg gaeegeeaet ggeacageaa gtgeeteaag tgeagtgaet gecaeaegee getggeegag egetgettea geegeggaga gageetetae tgeaaggaeg acttetteaa gegetteggg aceaagtgeg eegegtgee egetgggeate eegteeaege aggtggtgeg eegegeeeag gaettegtgt aceaeetgea atí 101 151 201 251 301

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the terre close que sette mil the three that

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Brith Hraff recke

151 tggctgggtg gtcgggagcc gcgctctcct ttcccgaagc cctgggcctc
301 taaaggacac agggtcaccg gcggggcaca ggctgaggac tgtccagccc
351 ggcggccctg gccccgggca gagggacttt ctcccggtct cgaggctcct
401 tctgggacaa ggggagccac ctggtggctg ctcagcaagc cttgttttgt
401 tctgggacaa ggggagccac ctggtggctg ctcagcaagc cttgttttgt
451 aagcagattc ctccctttat caaccaaaat taactgagtg cttgctgctc
501 tttctagacc ggagtggtca gcccccgaag ccggggaggg gggctctccc
551 cagcccagag cagcacagcc ctcagactgg aagatgcttt aatttttaaa
601 attaaaaaaat aatacgaact gtgcttccat ttcccagctt cctctgtcta 1251 1301 1351 1401 1451 1501 1601 1651

HG.28

1 MLLETELAGD RDRPGAPAA AVCTLPGTRE IPLCAGCDQH ILDRFILKAL
51 DRHWHSKCLK CSDCHTPLAE RCFSRGESLY CKDDFFKRFG TKCAACQLGI
101 PPTQVVRRAQ DFVYHLHCFA CVVCKRQLAT GDEFYLMEDS RLVCKADYET
151 AKQREAEATA KRPRTTITAK QLETLKSAYN TSPKPARHVR EQLSSETGLD
201 MRVVQVWFQN RRAKEKRLKK DAGRQRWGQY FRNMKRARGG SKSDKDSVQE
251 EGQDSDAEVS FTDEPSMAEM GPANGLYGGL GEPAPALGRP SGAPGSFPLE
301 HGGLAGPEQY GELRPSSPYG VPSSPAALQS LPGPQPLLSS LVYPEAGLGL
351 VPAGPPGGPP PMRVLAGNGP SSDLSTGSSG GYPDFPASPA SWLDEVDHAQ

41G. 29A

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String March

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Harry charts at the state of th

FIG. 29B
901 ctggagcacg gaggcctggc gggcccggag cagtatggag agctgcgcc
951 cagcagccc tacggtgtcc cetcgtcgcc cgccgccctg cagagcctcc
1001 ctggccccca gccctcctc tccagcttgg tgtacccgga ggctggcttg
1051 gggcttgtgc ccgcggggcc cccagcttgg tgtacccgga ggctggcttg
1101 ggcagggaac ggacccagct ccgacctatc cacggggagc agtgggtgct
1101 ggcagggaac ggacccagct ccgacctatc cacggggagc agtggggct
1151 accccgactt cctgccagt ccgacctcct ggctggaccag acacgagcac
1201 gctcagttct gactgaggcc ccagctccgt ggagcaccag acacgagcac
1201 gctcagttct gactgaggcc ccagctccgt ggagcaccag acacgagcac
1201 gctcctggc tgggtggtcg ggagccgcgc tctcctttcc cgaagccttg
1301 ggcctctaaa ggacacaggg tcaccggcgg ggccacaggct gaggactgtc
1301 gctccttctg gaacaaggg tcaccggcgg ggccacaggct gaggactgtc
1301 gctccttctg ggacaaggg ggccactgg tggctgctca gcaagccttg
1401 gctccttctg ggacaagggg tggtcagccc ccgaagccgg ggagggggg
1401 ctgcctttcttagaccagaccaccccagacccccagaaccgg ggagggggg
1501 ctgccctttc tagaccggag tggtcagccc ccgaagccgg ggagggggg
1551 tctccccagc ccagagcagcacaacattacccc
1601 tttaaaaatta aaaaataata cgaactgtgc ttccatttcc cagcttcctc
1601 tttaaaaatta aaaaaataata cgaactgtgc ttccatttcc cagcttcctc tgtctagttc tgcc 901 951 1001 1051 1101 1201 1251 1301 1351 1401 1451 1501 1501 1501 1501

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Total Park

1 MEARGELGPS RESAGGDLLL ALLARREDLR REIPLCAGCD QHILDRFILK
51 ALDRHWHSKC LKCSDCHTPL AERCFSRGES LYCKDDFFKR FGTKCAACQL
101 GIPPTQVVRR AQDFVYHLHC FACVVCKRQL ATGDEFYLME DSRLVCKADY
151 ETAKQREAEA TAKRPRTTIT AKQLETLKSA YNTSPKPARH VREQLSSETG
201 LDMRVVQVWF QNRRAKEKRL KKDAGRQRWG QYFRNMKRAR GGSKSDKDSV
251 QEEGQDSDAE VSFTDEPSMA EMGPANGLYG GLGEPAPALG RPSGAPGSFP
301 LEHGGLAGPE QYGELRPSSP YGVPSSPAAL QSLPGPQPLL SSLVYPEAGL
351 GLVPAGPPGG PPPMRVLAGN GPSSDLSTGS SGGYPDFPAS PASWLDEVDH
401 AQF 51 101 151 201 251 301 351 401